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Section B

Beam Interactions with Materials and Atoms

Editors: H. H. Andersen & L. E. Rehn

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Master Index
Volumes B71–B80/81

Scope of NIM-B

Section B of Nuclear Instruments and Methods in Physics Research accepts experimental and theoretical papers of original research covering all aspects of the interaction of energetic beams with atoms, molecules and aggregate forms of matter. This includes ion beam analysis and ion beam modification of materials as well as basic data of importance for these studies.

Topics of general interest include atomic collisions in solids, particle channeling, all aspects of collision cascades, the modification of materials by energetic beams, ion implantation, irradiation-induced changes in materials, the physics and chemistry of beam interactions and the analysis of materials by all forms of energetic radiation. Modification by ion, laser and electron beams for the study of electronic materials, metals, ceramics, insulators, polymers and other important and new material systems are included. Related studies, such as the application of ion beam analysis to biological, archaeological and geological samples, as well as applications to solve problems in planetary science, are also welcome. Energetic beams of interest include atomic and molecular ions, neutrons, positrons and muons, plasmas directed at surfaces, electron and photon beams, including laser treated surfaces and studies of solids by photon radiation from rotating anodes, synchrotrons, etc. In addition, the interaction between various forms of radiation and radiation-induced deposition processes are relevant.

Below are listed keywords to the specialized fields within the scope of the journal.

Basic Data for Materials Modification and Analysis

Range distributions
Stopping powers in gases and solids
X-ray cross sections
Fluorescence yields
Nuclear reaction cross sections
Scattering cross sections

Atomic Collisions in Solids

Atomic and molecular collisions
Collision cascades
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Secondary particle emission, sputtering
Channeling
Multiple scattering

Ion Beam Modification of Materials

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Beam optics for analysis and collision studies
Microprobes

Experimental Methods and Equipment

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Fitting and interpretation of energy spectra
New experimental methods
New instrumentation concepts

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The *title page(s)* should contain, in addition to the article title, author(s) names and affiliations, the text of related footnotes and the text of the abstract.

Tables should be typed on separate sheets at the end of the manuscript. In addition to its serial number, each table should have a sufficiently detailed heading or caption to explain the data displayed in it.

Figures should be numbered and their captions listed together at the end of the manuscript.

References in the text to other publications should be numbered consecutively within square brackets, for example: "Using a similar technique [1]..." or "As outlined in ref. [2],..." and listed together at the end of the text, for example:

[1] G.A. Smith, K.-H. Park, G.-C. Wang, T.-M. Lu and W.M. Gibson, Surf. Sci. 233 (1990) 115.
[2] T.Y. Tan, in: Defects in Semiconductors, eds. J. Narayan and T.Y. Tan (North-Holland, Amsterdam, 1981) p. 163.
[3] H. Yamazaki, Proc. 6th Int. Conf. on Ion Beam Modification of Materials, Nucl. Instr. and Meth. B 39 (1989) 433.

In the case of multiple authorship all authors should be listed in the references provided they number less than ten. Only in case of more than ten authors is the first author et al. acceptable.

Formulae in the manuscript should be clearly written or typed with particular consideration given to characters that may be misinterpreted,

e.g. o (lower case) O (cap.) 0 (zero) ° (deg) I (cap) l (el) 1 (one) ′ (prime) c, C; p, P; s, S; etc.
× (times) x (lower case) X (cap.) Σ (sigma) ∑ (sum). k, K, κ (kappa)

If necessary, unusual symbols should be explained in pencil in the margin.

Preparation of figures

The Publisher requires a set of good quality drawings and photographs to produce the printed line figures and half-tone plates in the journal. Photographic copies ("glossy prints") of drawings are also acceptable for the line figures if they have been sharply focused and evenly exposed.

Line figures: The drawings or glossy prints supplied for the line figures should be 1.5–3 times larger than the printed size of the figures and should contain all the required lettering.

Figures are preferably reduced to a single column width (7.6 cm) unless their complexity, large width-to-height ratio, or need to display special detail makes a larger format necessary (max. printed width ≈ 20 cm). Inappropriately sized lettering on a figure may prevent its reduction to the size optimum for its information content. The lettering used on a drawing should be chosen so that after reduction, the height of numbers and (capital) letters falls within the range 1.2–2.4 mm. Care should be exercised in choosing the pen width of machine-plotted graphs. Frequently lines in these figures are too fine compared to the area of the figure.

Shaded areas in line figures should be shown by means of cross-hatching (or a matrix of dots) rather than a continuous grey "wash". Cross-hatching, after reduction, of density less than ~25 lines/cm is satisfactory.

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